

B<sup>1</sup>  
cmd.

elevators, and other applications requiring transmission of control signals/information from an inaccessible or rotating location. The self-powered wireless switch is provided with a wireless transmitter, and an energy harvesting device arranged to produce electrical power for operation of the wireless transmitter when actuated by a switch. In accordance with aspect of the present invention, the energy harvesting device includes a piezoelectric element arranged to be distressed upon actuation of the switch. In accordance with another aspect, the energy harvesting device can include a tritium lamp arranged to energize a phosphor coating to produce light upon actuation of the switch, and at least one photo detector arranged to receive the light and generate the electrical power. In accordance with still another aspect of the present invention, the energy harvesting device includes at least one photo detector arranged to receive the light from a lamp. Preferably, the lamp can be arranged to generate black light.

Please replace the paragraph beginning on page 6, line 4 with the following rewritten paragraph.

B<sup>2</sup>

To further lower manufacturing costs, a preferred embodiment of the present invention utilizes MEMS technology to integrate the switch components onto a single chip. More specifically, MEMS (Micro ElectroMechanical Silicon) is an emerging technology in which mechanical structures and electronic circuits are formed on silicon wafers. One example of a vehicle component that utilizes this approach is an air bag/collision detection sensor. MEMS can be used to form other electronic components such as switches, navigational compasses, relays, and RF transmitters. For example, this manufacturing concept will enable a wireless vehicle side mirror power switch assembly to be integrated on a single silicon chip. The switch would communicate wirelessly with the door mounted outside mirrors, and would have complete freedom of location on the door panel because no wiring harness would be required. The use of MEMS technology would reduce complexity, improve reliability and reduce cost while providing more packaging flexibility. The self-powered wireless switch of the present invention can be used in other areas of the vehicle, including doors, instrument panel and headliner. Multiple switches can be put on a single chip and coupled to one transmitter circuit. An analog indicator, processor or other arrangement can be included to provide individual coding of each switch.

Please replace the paragraph beginning on page 7, line 10 with the following rewritten paragraph.

B3 In operation, a user actuated switch 310 is connected to a control input of wireless transmitter 206. A voltage regulator (not shown) can be included to regulate the supply of power from the photo detectors.

✓ **In The Drawings**

Applicants have attached a proposed amendment to Figure 5 to add reference number 400 and the associated lead line. Upon approval by the Examiner, this change will be incorporated into the formal drawings when the formal drawings are submitted later.